

316-338 Mathematical Economics

Credit Points:	12.50
Level:	3 (Undergraduate)
Dates & Locations:	2009, This subject commences in the following study period/s: Semester 2, - Taught on campus.
Time Commitment:	Contact Hours: Two hours of lectures and a 1-hour tutorial per week Total Time Commitment: Not available
Prerequisites:	316-201 Intermediate Macroeconomics (/view/2009/316-201) or 316-202 Intermediate Microeconomics (/view/2009/316-202) .
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	<p><p>For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Student Support and Engagement Policy, academic requirements for this subject are articulated in the Subject Overview, Learning Outcomes, Assessment and Generic Skills sections of this entry.</p> <p>It is University policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact on meeting the requirements of this subject are encouraged to discuss this matter with a Faculty Student Adviser and Student Equity and Disability Support: http://services.unimelb.edu.au/disability</p></p>
Coordinator:	Dr Liana Jacobi
Subject Overview:	Set theory, univariate calculus and optimisation are reviewed and applied to the theory of the firm and the theory of consumer demand. Linear algebra concepts including matrix operations, vector spaces and quadratic forms are introduced and applied to problems in economics and econometrics. Applications of multivariate calculus including constrained optimisation, the envelope theorem and Kuhn-Tucker conditions are covered.
Objectives:	.
Assessment:	One 2-hour end-of-semester exam (60%) and problem sets not exceeding 4000 words (40%).
Prescribed Texts:	Prescribed Texts: Mathematics for Economics, (2nd edn) (M Hoy, J Livernois, C McKenna, R Rees and T Stengos 2001), MIT Press, 2001, ISBN 0262082942 (hard cover) 0262582074 (paperback)
Breadth Options:	<p>This subject potentially can be taken as a breadth subject component for the following courses:</p> <ul style="list-style-type: none"> # Bachelor of Arts (https://handbook.unimelb.edu.au/view/2009/D09) # Bachelor of Environments (https://handbook.unimelb.edu.au/view/2009/A04) # Bachelor of Music (https://handbook.unimelb.edu.au/view/2009/M05) <p>You should visit learn more about breadth subjects (http://breadth.unimelb.edu.au/breadth/info/index.html) and read the breadth requirements for your degree, and should discuss your choice with your student adviser, before deciding on your subjects.</p>
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	# High level of development: problem solving; interpretation and analysis; critical thinking.

	<p># Moderate level of development: oral communication; written communication; collaborative learning; team work; statistical reasoning; application of theory to practice; receptiveness to alternative ideas.</p> <p># Some level of development: synthesis of data and other information; evaluation of data and other information; use of computer software; accessing data and other information from a range of sources.</p>
Notes:	Students who have completed 316-402 Advanced Microeconomics (view/2009/316-402) are not able to take 316-338 Mathematical Economics.
Related Majors/Minors/Specialisations:	Economics Major